



## Part Number: GUMTA12

### Indoor/Outdoor Distribution 12 Fibers G657A1-OS2

#### Product Description

Universal (Indoor/Outdoor) Mini Breakout Tight Optical Cable 12 x 9/125-G657A1-OS2 A/I-VQ(ZN)H

#### Technical Specifications

Construction Type:	Distribution
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#### Product Overview

Environmental Space:	Indoor/Outdoor - Euroclass Dca
Suitable Applications:	Structured (premises) wiring systems: campus and/or building backbone (riser) and/or horizontal cabling. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM Easy to install in ducts, tunnels and trenches. Not recommended for direct burial.

#### Construction

##### Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count
OS2	G657A1	12

Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua
Fiber Color Coding 2:	Europe coding (Gxxxxx.O): Red, Natural, Yellow, Blue, Green, Violet, Brown, Black, Orange, Aqua, Pink, White

##### Buffer Specification

Buffer Construction	Buffer Material	Buffer Diameter
Tight	LSZH - Low Smoke Zero Halogen	0.9 mm

Cable Core Water Tight:	Yes
Cable Core Water Blocking:	Waterblocking Glass Yarns
Bulk Cable Weight:	54 kg/km

#### Jacket Specifications

Number of Jackets:	Single Jacket
Type of Armor:	Non-Armored

##### Outer Jacket Material

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen	7.6 mm	0

#### Optical Characteristics

Fiber Core Diameter:	9 $\mu$ m
Max Attenuation at 1310 nm:	0.39 dB/km
Max Attenuation at 1550 nm:	0.24 dB/km

#### Mechanical Characteristics

##### Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	152 mm	IEC 60794-2-20
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	76 mm	IEC 60794-2-20

Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	450 N (101 lbf)	IEC 60794-2-20
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	5 kN/m	
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	3 kN/m	IEC 60794-2-20

## Temperature Range

Operating Temp Range:	-30 °C to +70 °C
Installation Temp Range:	-5 °C to +50 °C
Storage Temp Range:	-30 °C to +70 °C

## Standards

UL Rating/Flame Test:	Non-UL Rated
ISO/IEC Flammability:	IEC 60332-1-2
CPR Euroclass:	Dca-s1,d1,a1
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (ROHS II):	Compliant
UV/ Sunlight Protection:	yes

## History

### Variants

Item #	Color	Length
GUMTA12.022100	Black	2,100 m
GUMTA12.002100	Orange	2,100 m
GUMTA12.004100	Orange	4,100 m
GUMTA12.012100	Yellow	2,100 m
GUMTA12.014100	Yellow	4,100 m

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